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## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/722,544  
Source: OIPE  
Date Processed by STIC: 11/27/01

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**

**PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

**FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.**

**FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.**

**PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)**

**PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)**

**TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:**

### **Checker Version 3.0**

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

**Checker Version 3.0 can be down loaded from the USPTO website at the following address:**

**<http://www.uspto.gov/web/offices/pac/checker>**

OIPE

## RAW SEQUENCE LISTING

DATE: 11/27/2001

PATENT APPLICATION: US/09/722,544

TIME: 13:58:08

Input Set : A:\7853-224 REVISED SEQUENCE LISTING 11-21.TXT

Output Set: N:\CRF3\11212001\I722544.raw

5 <110> APPLICANT: Chen, H.  
 6 Freimer, N.  
 8 <120> TITLE OF INVENTION: METHODS OF DIAGNOSING NEUROPSYCHIATRIC DISORDERS  
 10 <130> FILE REFERENCE: 7853-224  
 12 <140> CURRENT APPLICATION NUMBER: 09/722,544  
 C--> 13 <141> CURRENT FILING DATE: 2000-11-18  
 15 <150> PRIOR APPLICATION NUMBER: 09/236,134  
 16 <151> PRIOR FILING DATE: 1999-01-22  
 18 <150> PRIOR APPLICATION NUMBER: 60/078,044  
 19 <151> PRIOR FILING DATE: 1998-03-16  
 21 <150> PRIOR APPLICATION NUMBER: 60/088,312  
 22 <151> PRIOR FILING DATE: 1998-06-05  
 24 <150> PRIOR APPLICATION NUMBER: 60/106,056  
 25 <151> PRIOR FILING DATE: 1998-10-28  
 27 <160> NUMBER OF SEQ ID NOS: 33  
 29 <170> SOFTWARE: FastSEQ for Windows Version 3.0

Does Not Comply  
 Corrected Diskette Needed

## ERRORED SEQUENCES

253 <210> SEQ ID NO: 3  
 254 <211> LENGTH: 1957  
 255 <212> TYPE: DNA  
 256 <213> ORGANISM: Homo sapiens  
 258 <220> FEATURE:  
 259 <221> NAME/KEY: CDS  
 260 <222> LOCATION: (241)...(1671)  
 E--> 262 <400> SEQUENCE: 1

> Seq. nos. differ!

263	tgcgtcacct gcaggcccg ggcgcgggggt tggtttccac cctggagggtt gctgacaccc	60
264	tgtgccctcg gctgacttcc agccggtggc acagacgcct ccagggggca gcaactcaagc	120
265	gcattcttagg aatgacagag ttgcgtccct ctckgttgcc aggctggagt tcagtggcat	180
266	gttcwtagct cactgaagcc tcaaattcct gggttcaagt gaccctccya cctcagcccc	240
267	atg agg acc tgg gac tac agt aac agc ggg aac atg aag ccg cca ctc	288
268	Met Arg Thr Trp Asp Tyr Ser Asn Ser Gly Asn Met Lys Pro Pro Leu	
269	1 5 10 15	
271	ttg gtg ttt att gtg tgt ctg ctg tgg ttg aaa gac agt cac tgc gca	336
272	Leu Val Phe Ile Val Cys Leu Leu Trp Leu Lys Asp Ser His Cys Ala	
273	20 25 30	
275	ccc act tgg aag gac aaa act gct atc agt gaa aac ctg aag agt ttt	384
276	Pro Thr Trp Lys Asp Lys Thr Ala Ile Ser Glu Asn Leu Lys Ser Phe	
277	35 40 45	
279	tct gag gtg ggg gag ata gat gca gat gaa gag gtg aag aag gct ttg	432
280	Ser Glu Val Gly Glu Ile Asp Ala Asp Glu Glu Val Lys Lys Ala Leu	
281	50 55 60	
283	act ggt att aag caa atg aaa atc atg atg gaa aga aaa gag aag gaa	480
284	Thr Gly Ile Lys Gln Met Lys Ile Met Met Glu Arg Lys Glu Lys Glu	
285	65 70 75 80	

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287	cac	acc	aat	cta	atg	agc	acc	ctg	aag	aaa	tgc	aga	gaa	gaa	aag	cag	528
288	His	Thr	Asn	Leu	Met	Ser	Thr	Leu	Lys	Lys	Cys	Arg	Glu	Glu	Lys	Gln	
289				85						90					95		
293	gag	gcc	ctg	aaa	ctt	ctg	aat	gaa	gtt	caa	gaa	cat	ctg	gag	gaa	gaa	576
294	Glu	Ala	Leu	Lys	Leu	Leu	Asn	Glu	Val	Gln	Glu	His	Leu	Glu	Glu	Glu	
295				100						105					110		
297	gaa	agg	cta	tgc	cgg	gag	tct	ttg	gca	gat	tcc	tgg	ggg	gaa	tgc	agg	624
298	Glu	Arg	Leu	Cys	Arg	Glu	Ser	Leu	Ala	Asp	Ser	Trp	Gly	Glu	Cys	Arg	
299				115						120					125		
301	tct	tgc	ctg	gaa	aat	aac	tgc	atg	aga	att	tat	aca	acc	tgc	caa	cct	672
302	Ser	Cys	Leu	Glu	Asn	Asn	Cys	Met	Arg	Ile	Tyr	Thr	Thr	Cys	Gln	Pro	
303				130						135					140		
305	agc	tgg	tcc	tct	gtg	aaa	aat	aag	att	gaa	cgg	ttt	ttc	agg	aag	ata	720
306	Ser	Trp	Ser	Ser	Val	Lys	Asn	Lys	Ile	Glu	Arg	Phe	Phe	Arg	Lys	Ile	
307	145					150					155					160	
309	tat	caa	ttt	cta	ttt	cct	ttc	cat	gaa	gat	aat	gaa	aaa	gat	ctc	ccc	768
310	Tyr	Gln	Phe	Leu	Phe	Pro	Phe	His	Glu	Asp	Asn	Glu	Lys	Asp	Leu	Pro	
311					165						170					175	
313	atc	agt	gaa	aag	ctc	att	gag	gaa	gat	gca	caa	ttg	acc	caa	atg	gag	816
314	Ile	Ser	Glu	Lys	Leu	Ile	Glu	Glu	Asp	Ala	Gln	Leu	Thr	Gln	Met	Glu	
315				180						185					190		
317	gat	gtg	ttc	agc	cag	ttg	act	gtg	gat	gtg	aat	tct	ctc	ttt	aac	agg	864
318	Asp	Val	Phe	Ser	Gln	Leu	Thr	Val	Asp	Val	Asn	Ser	Leu	Phe	Asn	Arg	
319				195						200					205		
321	agt	ttt	aac	gtc	ttc	aga	cag	atg	cag	caa	gag	ttt	gac	cag	act	ttt	912
322	Ser	Phe	Asn	Val	Phe	Arg	Gln	Met	Gln	Gln	Glu	Phe	Asp	Gln	Thr	Phe	
323				210											220		
325	caa	tca	cat	ttc	ata	tca	gat	aca	gac	cta	act	gag	cct	tac	ttt	ttt	960
326	Gln	Ser	His	Phe	Ile	Ser	Asp	Thr	Asp	Leu	Thr	Glu	Pro	Tyr	Phe	Phe	
327	225					230									235		
329	cca	gct	ttc	tct	aaa	gag	cgg	atg	aca	aaa	gca	gat	ctt	gag	caa	tgt	1008
330	Pro	Ala	Phe	Ser	Lys	Glu	Pro	Met	Thr	Lys	Ala	Asp	Leu	Glu	Gln	Cys	
331					245						250					255	
333	tgg	gac	att	ccc	aac	ttc	ttc	cag	ctg	ttt	tgt	aat	ttc	agt	gtc	tct	1056
334	Trp	Asp	Ile	Pro	Asn	Phe	Phe	Gln	Leu	Phe	Cys	Asn	Phe	Ser	Val	Ser	
335				260							265					270	
337	att	tat	gaa	agt	gtc	agt	gaa	aca	att	act	aag	atg	ctg	aag	gca	ata	1104
338	Ile	Tyr	Glu	Ser	Val	Ser	Glu	Thr	Ile	Thr	Lys	Met	Leu	Lys	Ala	Ile	
339				275											285		
341	gaa	gat	tta	cca	aaa	caa	gac	aaa	gct	cct	gac	cac	gga	ggc	ctg	att	1152
342	Glu	Asp	Leu	Pro	Lys	Gln	Asp	Lys	Ala	Pro	Asp	His	Gly	Gly	Leu	Ile	
343				290											300		
345	tca	aag	atg	tta	cct	ggg	cag	gac	aga	gga	ctg	tgt	ggg	gaa	ctt	gac	1200
346	Ser	Lys	Met	Leu	Pro	Gly	Gln	Asp	Arg	Gly	Leu	Cys	Gly	Glu	Leu	Asp	
347	305					310									315		
349	cag	aat	ttg	tca	aga	tgt	ttc	aaa	ttt	cat	gaa	aaa	tgc	caa	aaa	tgt	1248
350	Gln	Asn	Leu	Ser	Arg	Cys	Phe	Lys	Phe	His	Glu	Lys	Cys	Gln	Lys	Cys	
351					325										330		
353	cag	gct	cac	cta	tct	gaa	gac	tgt	cct	gat	gta	cct	gct	ctg	cac	aca	1296

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```

354 Gln Ala His Leu Ser Glu Asp Cys Pro Asp Val Pro Ala Leu His Thr
355          340          345          350
357 gaa tta gac gag gcg atc agg ttg gtc aat gta tcc aat cag cag tat      1344
358 Glu Leu Asp Glu Ala Ile Arg Leu Val Asn Val Ser Asn Gln Gln Tyr
359          355          360          365
361 ggc cag att ctc cag atg acc cgg aag cac ttg gag gac acc gcc tat      1392
362 Gly Gln Ile Leu Gln Met Thr Arg Lys His Leu Glu Asp Thr Ala Tyr
363          370          375          380
365 ctg gtg gag aag atg aga ggg caa ttt ggc tgg gtg tct gaa ctg gca      1440
366 Leu Val Glu Lys Met Arg Gly Gln Phe Gly Trp Val Ser Glu Leu Ala
367 385          390          395          400
369 aac cag gcc cca gaa aca gag atc atc ttt aat tca ata cag gta gtt      1488
370 Asn Gln Ala Pro Glu Thr Glu Ile Ile Phe Asn Ser Ile Gln Val Val
371          405          410          415
374 cca agg att cat gaa gga aat att tcc aaa caa gat gaa aca atg atg      1536
375 Pro Arg Ile His Glu Gly Asn Ile Ser Lys Gln Asp Glu Thr Met Met
376          420          425          430
378 aca gac tta agc att ctg cct tcc tct aat ttc aca ctc aag atc cct      1584
379 Thr Asp Leu Ser Ile Leu Pro Ser Ser Asn Phe Thr Leu Lys Ile Pro
380          435          440          445
382 ctt gaa gaa agt gct gag agt tct aac ttc att ggc tac gta gtg gca      1632
383 Leu Glu Glu Ser Ala Glu Ser Ser Asn Phe Ile Gly Tyr Val Val Ala
384          450          455          460
386 aaa gct cta cag cat ttt aag gaa cat ttt aaa acc tgg taagaagatc      1681
387 Lys Ala Leu Gln His Phe Lys Glu His Phe Lys Thr Trp
388 465          470          475
390 taatgcatcc tatatccagt aagtagaatt atctcttcat ctgggacctg gaaatcctga      1741
391 aataaaaaaag gataatgcaa taaacacagt tgcaggaaaag tatgttagct atatactatg      1801
392 aagtactctt agtttactta tgttgaatgg cttagctatt aatactcaaa ttgagttaaa      1861
393 atgaaaattc ctccttaaaa aatcaaacgt aatatgtatt acatttcatg gtacattagt      1921
394 agttctttgt atattgaata aataactaaat caccta      1957

```

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/722,544

DATE: 11/27/2001

TIME: 13:58:09

Input Set : A:\7853-224 REVISED SEQUENCE LISTING 11-21.TXT

Output Set: N:\CRF3\11212001\I722544.raw

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:262 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:3 differs:1  
L:783 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:784 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:1035 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:1037 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:1038 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:1039 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:1235 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:1236 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:1414 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:1462 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:1484 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:1524 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:1525 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:1526 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:1742 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:1743 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:1744 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:1745 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7